Telephony

INTERTEC PUBLISHING CORPORATION

INDEX TO VOLUME 217

Published by Intertec Publishing Corp. | July through December, 1989 | 55 E. Jackson Blvd. Chicago, IL 60604

ASSOCIATIONS

NATIONAL ASSN. OF REGULATORY UTILITIES COMMISSIONERS (NARUC)

NARUC seeks data on telcos, by M.J. Richter, Nov. 6, p. 28.

NORTH AMERICAN TELECOMMUNICATIONS ASSN. (NATA)

NATA, Telesphere join forces, Aug. 28, p. 3.

BUSINESS COMMUNICATIONS

ACD business is booming, by Laura O'Brien, Dec. 4, p. 42.

ASU teaches its students what state of the art really means, by Philip Pickle, Dec. 4, p. 34.

Bell Atlantic provides EDI, Dec. 18, p. 16.

Can telcos ACD?, by Carol Wilson, Dec. 4, p. 38.

Looking for tools, by Jim McWalters, July 31, p. 26.

VMX goes after small businesses, by Laura O'Brien, Sept. 25, p. 22.

BYPASS

Bypass activity increases in D.C., by Charles Mason, Aug. 14, p. 24.

Bypassers form a united front, Dec. 18, p. 16.

MFS moves against RHCs 'monopoly,' Nov. 20, p. 10.

MFS, U S West lock horns, by Dawn Bushaus, Oct. 9, p. 19.

Teleport to serve four more cities, by Dawn Bushaus, Oct. 9, p. 22.

Teleport, MFS ready in Boston, Oct. 23, p. 30.

Teleports gather interest, by Michael Galbraith, Nov. 27, p. 15.

CABLE, UNDERWATER

Pacts awarded for trans-Pacific fiber optic cable, by Laura O'Brien, Oct. 23, p. 26.

CELLULAR

Ameritech signs cellular pact, Sept. 11, p. 3.

Cellular giant emerges from BellSouth, LIN merger, by Laura O'Brien, Sept. 18, p. 8.

Cellular telephone growth hits milestone, by Laura O'Brien, Aug. 14, p. 12.

OSC, Motorola sign cellular pact, by Dawn Bushaus, Aug. 14, p. 30.

GE, Ericsson in cellular pact, Aug. 28, p. 3.

ITC excludes cellular gear, Sept. 4, p. 16.

Major cellular deals announced, by Paul Travis, Oct. 9, p. 13.

McCaw boosts bid for LIN, Oct. 16, p. 9.

Motorola, Tandy settle dispute, by Dawn Bushaus, Nov. 20, p. 14.

PacTel debuts cellular technology, Nov. 27, p. 16.

CENTRAL OFFICE TECHNOLOGY

Hop on the enhanced services express, by Scott A. Jones and Greg C. Carr, Oct. 9, p. 32.

CENTREX

Centrex II: The telcos' revenge, by Carol Wilson, July 17, p. 26.

Centrex to the rescue, by James Quarforth, July 17, p. 22.

Centrex: Still waiting in the wings, by John Williamson, Oct. 23, p. 35.

COIN-OPERATED TELEPHONES

Calif. considers pay phone pact, by Laura O'Brien, Aug. 14, p. 14.

COMMUNITY ANTENNA TELEVISION

Cable industry on defensive, Nov. 20, p. 3.

Cable TV issue smolders on, Nov. 20, p. 11.

Cable TV rates skyrocket, by Charles Mason, Aug. 14, p. 18.

NAB seeks CATV regulation, by Charles Mason, Oct. 2, p. 8.

CONFERENCE PREVIEWS

ICUEE '89 products run for the roses, by Ann Lindstrom, Sept. 4, p. 38.

Is your shopping list ready?, by Lloyd F. Brisk, Sept. 4, p. 34.

ISDN splashdown set for CN'90, by Ann Lindstrom, Dec. 11, p. 33.

CONFERENCE REPORTS

Alcatel/Cortelco reverses field on ISDN PBX, by Carol Wilson, Dec. 11, p. 18.

ComForum award winners names, Oct. 16, p. 20.

ICUEE '89 draws record crowds, by Lloyd F. Brisk, Oct. 16, p. 29.

Interconnect woes hit NATA show, by Deborah Pfeiffer and Carol Wilson, Dec. 11, p. 10.

New products take off at TCA, by Laura O'Brien and Deborah Pfeiffer, Oct. 2, p. 22.

Telcos told to stop whining, by Carol Wilson and Charles Mason, Oct. 23, p. 9.

Unicom '89: Wheeling and dealing in Dallas, by Deborah Pfeiffer, Oct. 30, p. 30.

CONGRESSIONAL ACTIVITY

The honeymoon is just beginning for Congress, FCC, by Charles Mason, Sept. 25, p. 10.

MFJ, CATV head Markey's agenda, by Charles Mason, Dec. 25, p. 9.

CUSTOMER PREMISE EQUIPMENT & SERVICES

AT&T hikes rates on leased phones, by Laura O'Brien, Nov. 13, p. 28.

AT&T loses $90 million Treasury contract—again, by Charles Mason, Dec. 25, p. 8.

FTS 2000 is ready to go, Oct. 9, p. 3.

Nynex builds EFT parking lot net, Sept. 4, p. 13.

DATA COMMUNICATIONS

British Telecom buys Tymnet; expands U.S. datacom position, by John Williamson and Carol Wilson, Aug. 7, p. 8.

Ins and outs of DS1 and DS3 measurement, by Hugh Walker, Sept. 11, p. 36.

DEPARTMENT OF JUSTICE

Appeals court hears arguments on MFJ changes, by Charles Mason, Dec. 11, p. 10.

DOJ seeks delay of MFJ review, July 10, p. 3.

DOJ supports AT&T electronic publishing bid, July 3, p. 16.

Justice Department opposes price caps for telcos, by Charles Mason, July 31, p. 10.

DIRECTORY

Make your plans now, by Stephen P. Shao Jr., Nov. 27, p. 34.

EARNINGS

AT&T, LECs show low profits, by Laura O'Brien, Oct. 30, p. 18.

Earnings mixed in 2nd quarter, July 24, p. 3.

IXCs post strong profits, by Laura O'Brien, Oct. 23, p. 19.

Second quarter earnings mixed, July 31, p. 20.

Second quarter earnings up, July 24, p. 18.

ELECTRONIC MESSAGE SYSTEMS

AT&T, VoiceCom forge link, by Laura O'Brien, Sept. 18, p. 22.

L.A. County gets the message, by Ward D. Flora, Aug. 21, p. 32.

Nynex picks up two VMS vendors, Oct. 2, p. 30.

SW Bell plans voice messaging, by Laura O'Brien, Sept. 25, p. 29.

FACSIMILE

Not just the fax, by John Williamson, Sept. 25, p. 33.

Telenet opens Fax network, by Laura O'Brien, Aug. 14, p. 22.

Will the fax boom go bust, by Laura O'Brien, Sept. 25, p. 38.

FEDERAL COMMUNICATIONS COMMISSION

AT&T wins big at the FCC, Oct. 30, p. 3.

Bureau to push for cut in LEC profits, Dec. 18, p.3.

Bush names Duggan to FCC, Nov. 27, p. 3.

Court upholds FCC pre-emption; orders review, July 10, p. 3.

Dennis bids adieu to FCC Oct. 1, Aug. 28, p. 10.

Duggan is FCC mystery man, by Charles Mason, Dec. 4, p. 17.

FCC accuses 10 BOCs with overcharging IXCs, by Charles Mason, Dec. 18, p. 8.

FCC allows new Pacific cables, Nov. 6, p. 19.

FCC approves AT&T CEI plan, by Charles Mason, Sept. 18, p. 14.

FCC approves Tariff 12 plans, Aug. 28, p. 25.

FCC chairman Sikes calls for 'new, improved' network, by Charles Mason, Nov. 13, p. 8.

FCC clears way for AT&T cap plan, July 3, p. 16.

FCC dismisses 800 blocking complaint, July 10, p. 14.

FCC forms international unit, Nov. 6, p. 24.

FCC kills strategic pricing for special access, orders refunds, by Charles Mason, Dec. 4, p.8.

FCC OKs another Tariff 12 plan, by Charles Mason, July 24, p. 21.

FCC rejects MCI service to Spain, by Charles Mason, Sept. 4, p. 12.

FCC to extend rate of return, Oct. 9, p. 24.

FCC to review status of AT&T, by M.J. Richter, Oct. 23, p. 9.

FCC tries making tariff deadline, by Charles Mason, Oct. 30, p. 11.

FCC warns BOCs of liability, July 31, p. 3.

FCC wraps up investigations, Nov. 6, p. 22.

Firestone named FCC bureau chief, Sept. 11, p. 3.

Hearings set for FCC nominees, July 31, p. 13.

The honeymoon is just beginning for Congress, FCC, by Charles Mason, Sept. 25, p. 10.

New FCC team nominated, July 24, p. F.

Quick hearings for FCC nominees, July 17, p. 3.

Senate committee OKs FCC nominees, by Charles Mason, Aug. 7, p. 9.

Sikes gets FCC nomination, by Charles Mason, July 3, p. 9.

Sikes outlines spectrum plans, Oct. 9, p. 3.

Sikes tells ANPA to work with telcos, Nov. 6, p. 3.

Sikes: FCC must help innovation, by Charles Mason, Sept. 18, p. 9.

Telcos get price caps in 1991, FCC decides, Dec. 25, p. 3.

FIBER OPTICS-TECHNOLOGY & APPLICATIONS

Agreement boosts FDDI prospects, by Michael Warr, Aug. 21, p. 13.

Are the skies friendly for fiber optic cable?, by Daniel L. Pope, Aug. 7, p. 38.

The digital transformation of the local loop, by Mark Pitchford, Nov. 6, p. 54.

Fiber optics to the rescue!, by Leon M. Bower, Nov. 6, p. 50.

Fiber to link offshore islands, by Larry Luxner, Sept. 18, p. 24.

Fiber trial powered by network, by Paul Travis, Nov. 13, p. 9.

Fusion can bring fiber to the home, by Robert Whapham, Nov. 6, p. 42.

Heathrow views switched digital video, by Michael Warr, July 24, p. 12.

Investment frenzy!, by Sunil Tagare, Aug. 28, p. 50.

Nothing but fiber in Southern Bell CO, by Michael Warr, Dec. 18, p. 12.

OAS seeks money for fiber link, Sept. 25, p. 28.

Statesboro Tel sees the light, by Rodney Harville, Nov. 6, p. 38.

SWBT tests new fiber technology, by Michael Warr, Sept. 11, p. 9.

TV over fiber trial begins, by Michael Warr, Dec. 11, p. 22.

Weaving an alternative, by Dawn Bushaus, Sept. 11, p. 48.

HIGH-DEFINITION TELEVISION

Bellcore speeds HDTV signals, by Laura O'Brien, Oct. 30, p. 25.
NTI, Bellcore to research HDTV jointly, Sept. 25, p. 14.

INTEGRATED SERVICES DIGITAL NETWORK

The Asia Pacific region grasps the ISDN nettle, by John Williamson, July 24, p. 34.
AT&T updates ISDN interfaces, by Michael Warr, Sept. 4, p. 19.
Bell Atlantic touts ISDN software, Oct. 30, p. 12.
BISDN could debut in 1993, by Michael Warr, Nov. 6, p. 10.
The competitive edge, by Gary Melhart, Nov. 13, p. 46.
Comsat completes ISDN test bed, Sept. 25, p. 31.
General DataComm to test ISDN mix, Dec. 4, p. 24.
GPT, Hayes sign ISDN CPE linkup, Dec. 11, p. 14.
Illinois Bell, AT&T link ISDN internationally, by Dawn Bushaus, Dec. 4, p. 16.
InterLATA ISDN demonstrated, by Michael Warr, July 31, p. 11.
ISDN CPE: Will it make your network obsolete?, by Richard Lush, Nov. 13, p. 30.
ISDN cutover completed, Nov. 20, p. 16.
It's time to break some eggs, by Ronald G.F. Aitchison, Nov. 13, p. 42.
More ISDN PRI from AT&T, by Michael Warr, July 3, p. 18.
NIU Forum delays ISDN Event plans, by Dawn Bushaus, Oct. 23, p. 14.
Pac Bell reveals ISDN plans, by Dawn Bushaus, Nov. 6, p. 14.
PacBell offers ISDN in all major cities, by Paul Travis, Dec. 11, p. 9.
Serving up ISDN at Hardee's, by Russell Bass, July 31, p. 38.
SW Bell offers ISDN test drive, by Michael Warr, Aug. 21, p. 12.
SWBT adds five ISDN customers, Dec. 11, p. 9.

INTERCONNECT COMPANIES

Tel Plus sells PBX customers to NEC America, by Paul Travis, Dec. 25, p. 12.

INTEREXCHANGE CARRIERS

AT&T and MCI battle heats up, by Charles Mason, Oct. 2, p. 24.
AT&T competitors wait for FCC, by Charles Mason, Nov. 20, p. 14.
AT&T completes link to Cuba, by Larry Luxner, Aug. 28, p. 21.
AT&T cuts rates by $140 million, July 3, p. 3.
AT&T cuts rates by $300 million, Dec. 25, p. 16.
AT&T lowers Info-2 prices, Nov. 20, p. 21.
AT&T mounts new attack at FCC, by Charles Mason, Aug. 14, p. 10.
AT&T moves to offer four new Tariff 12 options, by Charles Mason, July 10, p. 17.
AT&T offers new billing service, by Dawn Bushaus, Sept. 4, p. 11.
AT&T plans Caribbean cable, by Larry Luxner, July 24, p. 14.
AT&T plans rate increase, Nov. 20, p. 3.
AT&T ponders publishing move, by Charles Mason, Aug. 7, p. 14.
AT&T seeks access refunds, Oct. 16, p. 20.
AT&T sweetens pension offer, Oct. 23, p. 3.
AT&T unveils Accumaster, Sept. 25, p. 18.
AT&T wins big at the FCC, Oct. 30, p. 3.
AT&T, Intellicall settle lawsuit, Nov. 20, p.16.
Calif. service back to normal, Oct. 23, p. 3.
DOJ supports AT&T electronic publishing bid, July 3, p. 16.
FCC approves Tariff 12 plans, Aug. 28, p. 25.
FCC oks AT&T's new Tariff 12, July 3, p. 3.
FCC rejects MCI service to Spain, by Charles Mason, Sept. 4, p. 12.
FCC to review status of AT&T, by M.J. Richter, Oct. 23, p. 9.
Follow the yellow brick road, by Fredric Saunier, Oct. 30, p. 34.
Greene says yes to AT&T, July 31, p. 3.
IXCs hit FCC on AT&T rules, Nov. 6, p. 3.
IXCs link with X.400 gateway, by Laura O'Brien, Oct. 30, p. 25.
LiTel installs SS7 interpreter, Nov. 20, p.26.
MCI attacks SNFA agreements, Nov. 20, p. 11.
MCI files FTS 2000 protest, Sept. 18, p. 3.
MCI introduces multisite reporting and switched 56, by Laura O'Brien, Oct. 9, p. 23.
MCI slaps AT&T with lawsuit over advertising, by Charles Mason, Oct. 16, p. 9.
MCI wins IXC consortium deal, Nov. 27, p. 14.
MCI, K mart plan largest Vnet, Dec. 4, p. 27.
Metromedia buys ITT IXC units, Sept. 4, p. 3.
NATA, Telesphere join forces, Aug. 28, p. 3.
NTI tests ISDN with MCI, Sprint, Dec. 11, p. 24.
Pac Bell joins Sprint on 800, Nov. 27, p. 3.
Price-cap rules kill AT&T cuts, Dec. 4, p. 3.
PRTC, AT&T race to restore lines after Hugo hits Puerto Rico, by Larry Luxner, Sept. 25, p. 8.
Puerto Rico basks in IXC limelight, by Larry Luxner, Nov. 6, p. 19.
Reach out on Intersputnik, Dec. 18, p. 3.
Southern Pacific rides back into telecommunications, by Laura O'Brien, Oct. 16, p. 14.
Sprint announces 1990 ISDN debut, by Dawn Bushaus, Sept. 4, p. 9.
Sprint expands overseas accounts, Nov. 20, p. 26.
Sprint launches caller program, Dec. 4, p. 20.
Sprint launches operator unit, July 3, p. 3.
Sprint ties up PTAT loose ends, Aug. 21, p. 12.
Sprint to offer billing data for PCs, Aug. 21, p. 12.
Sprint, Cezar head for court, by Laura O'Brien, Oct. 2, p. 30.
SS7 to the rescue, by Terry Yake and Ronald Staub, Dec. 18, p. 24.
Telenet links local packet nets, Aug. 21, p. 14.
Telenet opens Fax network, by Laura O'Brien, Aug. 14, p. 22.
Tymnet introduces expansion plan, by Laura O'Brien, Oct. 9, p. 24.
U S West, AT&T plan FO trial, July 24, p. 18.
United Telecom, US Sprint reorganize, Oct. 16, p. 8.
US Sprint lands two big contracts, Sept. 25, p. 10.
US Sprint nabs AT&T executive, Dec. 4, p. 3.
US Sprint unveils fractional T-1, by Laura O'Brien, Oct. 9, p. 24.
Williams swallows WilTel shares, Nov. 13, p. 22.
Williams uses FO switch in cutover, by Paul Travis, Sept. 11, p. 12.

INTERNATIONAL

CANADA
Court shakes up Canadian telecommunications, by Laura O'Brien, Aug. 28, p. 8.

FRANCE
Approaching 1992, by Jean Grenier, July 24, p. 30.
France heads for EC service victory, by John Williamson, Nov. 27, p. 10.
France tests flexible access, by John Williamson, Aug. 21, p. 14; Aug. 28, p. F.
Videotex enters another dimension, by Jean-Pierre Temime, Sept. 25, p. 59.

GERMANY, WEST
Bell Atlantic forms German unit, by Dawn Bushaus, Sept. 25, p. 12.
Germans bite PCN bullet, Nov. 13, p. 3.
Germany awards cell license to Pactel group, Dec. 11, p. 3.
Germany awards cellular license, by John Williamson and Peter Purton, Dec. 25, p. 16D.
RHCs favored in German cell bid, Dec. 4, p. 3.
Telekom selects first director, Sept. 18, p. 3.
West Germany hits FAS trail, by John Williamson, Nov. 13, p. 10.

GIBRALTAR
Gibraltar, Nynex details emerge, by John Williamson, Oct. 9, p. 15; Oct. 23, p. 36D.
Nynex wins Gibraltar deal, Sept. 25, p. 3.

HONG KONG
Hong Kong's first underwater fiber optic cable was installed recently, Sept. 4, p. 9. (Photo)
U S West gets Hong Kong cable, by John Williamson and Dawn Bushaus, Aug. 28, p. F.
U S West group gets Hong Kong cable TV franchise, by John Williamson and Dawn Bushaus, Aug. 7, p. 8.

HUNGARY
Telecom glasnost for Hungary, by John Williamson, Oct. 23, p. 10.
U S West inks cellular deal with Hungarian PTT, by Paul Travis, Dec. 11, p. 8; Dec. 25, p. 16B.

ITALY
Italtel to handle AT&T PBXs, July 17, p. 18.
Italy ponders new telecom plan, by John Williamson, Dec. 25, p. 16B.
Italy to test Telepoint systems, by Peter Purton, Oct. 23, p. 36D.
Voicemail wins big Italian deal, by Laura O'Brien, Aug. 21, p. 19.

JAPAN
AT&T looks for Japan VAN growth, Nov. 27, p. 15.
Japan's new IXCs see sales soar, by Michael Galbraith, Dec. 4, p. 20.
KDD lowers rates as competition looms in Japan, by Michael Galbraith, Sept. 25, p. 15.
KDD's competitors grab a share of Japan's long-distance business, by Michael Galbraith, Nov. 27, p. 16B.
LDP encourages NTT break-up, by Michael Galbraith, Nov. 6, p. 9; Nov. 27, p. 16D.
New competitors grab KDD business, by Michael Galbraith, Nov. 20, p. 23.
NTT America names Suzuki new president, July 31, p. 20.
NTT America names Suzuki president, Aug. 28, p. D.
NTT announces accelerated plan for digitalization of network, by Michael Galbraith, Oct. 23, p. 36B.
NTT announces accelerated plan for digitalization, by Michael Galbraith, Oct. 2, p. 14.
NTT divestiture options proposed, Oct. 9, p. 8; Oct. 23, p. 36B.
NTT exec rejects breakup plan, by John Williamson, Dec. 25, p. 16F.
NTT seeks big rate reduction, by Michael Galbraith, Dec. 11, p. 14; Dec. 25, p. 16D.
NTT solicits for ISDN research, Oct. 2, p. 33.
NTT to launch wide area paging, by Michael Galbraith, Oct. 23, p. 22.
TeleCard to offer service in Japan, Sept. 25, p. 27.
U.S. execs advise Japan, by Michael Galbraith, Dec. 11, p. 24.
U.S., Japan settle trade dispute; telecom market restrictions eased, by Charles Mason, July 3, p. 8; July 24, p. E.

NEW ZEALAND
SWB telephones go to New Zealand, Aug. 28, p. E.

PAKISTAN
Pakistan awards cellular licenses, by John Williamson, Oct. 30, p. 24; Nov. 27, p. 16D.

POLAND
Poland, U.S. talk telecom, Dec. 4, p. 3.

SPAIN
Motorola wins Spanish contract, Sept. 4, p. 13.
Spain joins PCN group, by John Williamson, Sept. 25, p. H.

SWEDEN
Svedberg named Ericsson chairman, Dec. 25, p. 16D.

UNITED KINGDOM
Alcatel, Siemens spawn new PBX standard, by John Williamson, Dec. 25, p. 16F.
AT&T moves into U.K. VANS market, by John Williamson, Oct. 2, p. 9; Oct. 23, p. 36B.
BellSouth joins GEC, Plessey in PCN bid, by John Williamson, July 24, p. 14.
Big business drives U.K. local fiber, by John Williamson, Aug. 28, p. 28.
British Telecom buys Tymnet; expands U.S. datacom position, by John Williamson and Carol Wilson, Aug. 7, p. 8.
BT not excluded from mobile PCN, by John Williamson, July 17, p. 15.
C&W to add a PTT to PCN group, by John Williamson, Sept. 11, p. 8.
CBIS ventures into Europe, by Laura O'Brien, Nov. 6, p. 24.
Ferranti CT2 eyes local loop, by John Williamson, Nov. 6, p. 31; Nov. 27, p. 16D.
Ferranti scandal may force takeover, by Peter Purton, Oct. 2, p. 34.
GEC, Plessey resume fight, July 10, p. 3.
GEC, Siemens win Plessey battle, Sept. 11, p. 3.
GPT plans ISDN joint venture, Dec. 4, p. 3.
GPT prepares for intelligent net, by John Williamson, Aug. 28, p. F.
Licenses for three PCNs awarded in the United Kingdom, by John Williamson, Dec. 25, p. 16B.
PacTel enters battle for PCNs, by Paul Travis, Aug. 21, p. 9.
PacTel wins two U.K. cable bids, July 31, p. 13.
PCN companies seek ETSI embrace, by John Williamson, Dec. 4, p. 24.
PCN in U.K. draws U.S. bids, by John Williamson, July 31, p. 17.
PCN players pick up sides, Sept. 11, p. 3.
PCN won't exclude BT or Racal, by John Williamson, July 24, p. F.
Personal communication network bidding heats up in U.K., by John Williamson, Aug. 28, p. D.
Plessey takeover ends on quiet note, by John Williamson, Sept. 25, p. D.
Plessey unveils defense tactics, by John Williamson, Sept. 4, p. 16.
Stet, Thorn join PCN partnership, Aug. 14, p. 3.
SWB buys into U.K. CATV industry, Nov. 27, p. 11.
U.K. approves BT fiber trial, Nov. 27, p. 16.
U.K. launches real ISDN, by Peter Purton, Nov. 27, p. 16B.
U.K. launches real ISDN, Nov. 13, p. 3.
U.S. firms share U.K. PCN licenses, by John Williamson, Dec. 18, p. 8.

UNION OF SOVIET SOCIALIST REPUBLICS
MCI, U.S.S.R. agree on protocol, Oct. 30, p. 24.
Reach out on Intersputnik, Dec. 18, p. 3.
U S West, USSR plan fiber link, Dec. 11, p. 3.
U S West, USSR plan fiber link, Dec. 25, p. 16D.

OTHER
The Asia Pacific region grasps the ISDN nettle, by John Williamson, July 24, p. 34.
AT&T plans Caribbean cable, by Larry Luxner, July 24, p. 14.
Cellular gains foothold in South America, by Larry Luxner, Nov. 6, p. 32.
Centrex: Still waiting in the wings, by John Williamson, Oct. 23, p. 35.
CEPT OKs European mobile satellite efforts, by John Williamson, July 24, p. E.

CTC establishes emergency network, by Larry Luxner, Nov. 6, p. 14.
DECT group backs cordless standard, by John Williamson, Sept. 11, p. 10.
DECT group goes on the attack as standards debate heats up, by John Williamson, Sept. 25, p. D.
EC heads for 1990 showdown, by John Williamson, Nov. 13, p. 14.
ETSI mobile updating progress, Aug. 28, p. D.
ETSI to review mobile options, by John Williamson, July 24, p. E.
Europe debates cellular patents, by John Williamson, Sept. 11, p. 18.
Europe to decide PCN technology, by John Williamson, Nov. 27, p. 9.
European paging draws nearer, July 31, p. 14.
Europeans reach data compromise, by John Williamson, Dec. 18, p. 16; Dec. 25, p. 16F.
Eutelsat halves system bit rate, by John Williamson, Oct. 23, p. 36D.
Eutelsat splits over new chief, by Peter Purton, Sept. 18, p. 10; Sept. 25, p. D.
Going global, by Fritz W. Ringling, Aug. 28, p. 34.
GSM patent concern grows, by John Williamson, Oct. 23, p. 26.
GTE makes late bid for European mobile licenses, by Peter Purton, Sept. 25, p. 12.
IIC Conference mulls disparate visions, by John Williamson, Sept. 25, p. H.
Is the European mobile revolution careening out of control, by John Williamson, Nov. 27, p. 28.
Mobile blueprint for Europe?, July 17, p. 3.
New export rules for Eastern bloc, Dec. 25, p. 16.
Not just the fax, by John Williamson, Sept. 25, p. 33.
Patent upset looms for European cellular systems, by John Williamson, Sept. 25, p. H.
PCN development hurts Telepoint, by Peter Purton, Aug. 7, p. 16.
The rural telecom dilemma, by John Williamson, July 24, p. 26.
Sony makes big European push, by John Williamson, Aug. 21, p. 16; Aug. 28, p. F.
Stet withdraws from PCN battle, by John Williamson, Sept. 18, p. 15.
U.S. ambivalent toward 1992 European market, by John Williamson, Dec. 4, p. 25.
We'll be ready – next time, by Larry Luxner, Oct. 23, p. 44.
West ready to help East step into the 20th century, by Peter Purton, Nov. 20, p. 14.
West to help East step into the 20th century, by Peter Purton, Nov. 27, p. 16B.
Will 1992 mean office automation opportunities in Europe?, by Jonathan Visbal, Dec. 25, p. 22.

INTERNATIONAL TELECOMMUNICATION UNION

Irmer urges major CCITT reform, by John Williamson, Dec. 25, p. 8.
Man in the ITU hot seat, by John Williamson, Sept. 25, p. 48.
New ITU chief to make Nov. start, Aug. 28, p. E.

LABOR

Ameritech, CWA resume talks, Aug. 28, p. 3.
And then there was one: CWA, two more RHCs settle, by Dawn Bushaus, Sept. 4, p. 8.
Bell Atlantic, CWA reach pact, Aug. 21, p. 3.
BellSouth settles with CWA, by Dawn Bushaus, Aug. 14, p. 9.
CWA rejects new Nynex offer, by Dawn Bushaus, Sept. 18, p. 14.
CWA rejects tentative pact with PacTel, by Dawn Bushaus, Oct. 2, p. 15.
CWA strikes Northern Telecom, July 24, p. 3.
CWA, legislators pressure Nynex, by Dawn Bushaus, Nov. 6, p. 18.
GTE, CWA settle union contract, by Dawn Bushaus, July 17, p. 9.
Ill. Bell, IBEW pact expected, July 3, p. 3.
Illinois Bell, IBEW reach tentative three-year contract, by Dawn Bushaus, July 10, p. 10.
Mass. strikers lose benefits, Oct. 16, p. 17.
N.J. Bell, IBEW reach accord, by Dawn Bushaus, Sept. 11, p. 22.
Nynex breaks off CWA talks, reaches firm pact with IBEW, by Dawn Bushaus, Nov. 27, p. 8.
Nynex contract puzzles analysts, by Dawn Bushaus, Dec. 4, p. 10.
Nynex rejects union plan, Oct. 2, p. 3.
Nynex strike enters 6th week, Sept. 11, p. 3.
Nynex workers approve pact, Dec. 4, p. 3.
Nynex, CWA make tentative pact, Nov. 27, p. 3.
Nynex, CWA talks continue, Sept. 4, p. 3.
Nynex, unions come to terms over health care issues, by Dawn Bushaus, Nov. 20, p. 10.
Nynex, unions try mediation, Oct. 23, p. 19.
Pac Bell, CWA reach agreement, by Dawn Bushaus, Oct. 30, p. 12.
PacTel, CWA come to terms, Aug. 28, p. 9.
RHC contract talks continue, Aug. 7, p. 3.
RHCs, CWA face deadlines, by Dawn Bushaus, Aug. 7, p. 8.
Strikes against RHCs heat up, Aug. 14, p. 3.
Union local attacks New York Tel, by Dawn Bushaus, Dec. 18, p. 10.
Union walkout hits Ameritech; two RHCs reach settlement, by Dawn Bushaus, Aug. 21, p. 8.
Unions attempt to pressure Nynex, by Dawn Bushaus, Sept 25, p. 10.
Unions fare well in health care battle, by Dawn Bushaus, Oct. 2, p. 11.
Unions strike three regionals; more employee walkouts expected, by Dawn Bushaus, Aug. 14, p. 8.

LEGISLATION

Cable TV bill has 52 co-sponsors, Nov. 6, p. 8.
Congress moves on TDD network, by Charles Mason, Sept. 18, p. 18.
Dial-a-porn bill introduced, by Charles Mason, July 3, p. 13.
Dial-a-porn bill resurfaces, July 17, p. 3.
FCC supports MFJ legislation, July 3, p. 16.
Heavy agenda threatens progress on MFJ bill, by Charles Mason and M.J. Richter, Oct. 23, p. 8.
House committee cautious on MFJ, by Charles Mason, Aug. 7, p. 13.
Junk fax bill moves in House, July 24, p. 3.
LEC groups attack rural legislation, by Charles Mason, July 10, p. 14.
New bill to grant rural telcos relief, Nov. 13, p. 18.

LOCAL EXCHANGE CARRIERS

Ames charts U S West course, by Dawn Bushaus, Nov. 13, p. 11.
Ames named head of U S West unit, Nov. 6, p. 3.
Bellcore, SWB play telephone hi-fi, by Michael Warr, Sept. 25, p. 9.
Calif. service back to normal, Oct. 23, p. 3.
Centel offers refunds, cuts, Sept. 4, p. 18.
A commitment to continuity, by Karen C. Shallenberg, Dec. 11, p. 45.
Cubs fever hits Illinois Bell network, by Dawn Bushaus, Oct. 2, p. 20.
CWA, PacTel resume talks, Oct. 9, p. 15.
Dialing for dollars, by Jim Edwards, Oct. 9, p. 28.
GTE gets final Cerritos approval, July 24, p. 18.
Hugo no match for So. Bell, Sept. 25, p. 3.
Ill. Bell gets incentive plan, Nov. 13, p. 3.
Indiana Bell tests 'smart house,' by Dawn Bushaus, Nov. 27, p. 14.
Lawsuit upheld against U S West, by Charles Mason, July 3, p. 8.
Let's go live, by C. Robert Paulson, Oct. 30, p. 42.
MFS, U S West lock horns, by Dawn Bushaus, Oct. 9, p. 19.
Michigan Bell restructures, Oct. 30, p. 3.
N.Y. Tel files new rate plan, Sept. 18, p. 3.
Nevada Bell offers voice mail, Nov. 20, p. 34.
New York Tel cites problems with incentive regulation plan, by Charles Mason, July 24, p. 8.
New York Telephone price-cap plan draws praise, by Charles Mason, Sept. 25, p. 9.
Nothing but fiber in Southern Bell CO, by Michael Warr, Dec. 18, p. 12.
NTI, Mich. Bell test automated billing service, by Dawn Bushaus, Aug. 28, p. 10.
Pac Bell joins Sprint on 800, Nov. 27, p. 3.
Pac Bell proposes $135-million rate cut, by Dawn Bushaus, Nov. 6, p. 20.
Pac Bell reveals ISDN plans, by Dawn Bushaus, Nov. 6, p. 14.
Pac Bell sues to stop porn, Aug. 28, p. 3.
Pac Bell touts video classroom, Oct. 2, p. 3.
PacBell network survives quake, by Carol Wilson, Oct. 23, p. 14.
PacBell offers ISDN in all major cities, by Paul Travis, Dec. 11, p. 9.
PRTC chief focuses on equal access, by Larry Luxner, Sept. 25, p. 19.
PRTC, AT&T race to restore lines after Hugo hits Puerto Rico, by Larry Luxner, Sept. 25, p. 8.
Rochester goes on shopping spree, Oct. 9, p. 21.
Rochester inks Prodigy pact, Sept. 4, p. 3.
Rochester Tel acquires fifth Wis. telco, Nov. 6, p. 23.
Shopping network loses to GTE, by Dawn Bushaus, Aug. 7, p. 14.
South Central Bell's CLASS act, by John McPherson, July 31, p. 43.
Statesboro Tel sees the light, by Rodney Harville, Nov. 6, p. 38.
Strike problems plague New York, Oct. 9, p. 3.
SW Bell backs 'fast-packet' network trial, by Paul Travis, Dec. 4, p. 9.
SW Bell modernization plan revived after Missouri rate settlement, by Dawn Bushaus, Oct. 2, p. 8.
SW Bell offers ISDN test drive, by Michael Warr, Aug. 21, p. 12.
SW Bell plans voice messaging, by Laura O'Brien, Sept. 25, p. 29.
SWBT adds five ISDN customers, Dec. 11, p. 9.
SWBT begins 'medical imaging,' by Dawn Bushaus, Dec. 4, p. 24.
SWBT seeks regulatory change, Oct. 30, p. 16.
SWBT starts CATV trial, Dec. 18, p. 3.
SWBT tests new fiber technology, by Michael Warr, Sept. 11, p. 9.
SWBT to deploy SS7 for CLASS, Nov. 13, p. 24.
U S West launches PRI in Arizona, by Laura O'Brien, Oct. 2, p. 9.
U S West plans IXC access to white pages, by Charles Mason, Nov. 13, p. 14.
U S West protests refund order, by Dawn Bushaus, Oct. 30, p. 23.
U S West refund order stayed, Nov. 6, p. 23.
U S West responds to air crash, by Charles Mason, Aug. 28, p. 14.
U S West, WUTC propose rate plan, by Dawn Bushaus, Oct. 9, p. 12.
United executive named president of Ill. Bell, Dec. 25, p. 3.
The Valdez experience: Life returns to normal after a hectic spring and summer, by Dean Moore, Oct. 2, p. 44.
Wis. Bell goes all electronic, Dec. 18, p. 16.
Wis. Bell settles costly complaint, Aug. 7, p. 15.
Women's groups hit pay plan, Aug. 7, p. 3.

MANAGEMENT

How do you account for that?, by Kathryn A. Hudson, July 17, p. 34.

MANUFACTURER

Alcatel, Siemens spawn new PBX standard, by John Williamson, Dec. 4, p. 17.
Alcatel/Cortelco reverses field on ISDN PBX, by Carol Wilson, Dec. 11, p. 18.
Analysts praise NTI's FiberWorld, by Carol Wilson, Oct. 23, p. 16.
AT&T loosens ties to Olivetti, by John Williamson, July 24, p. 16.
AT&T makes its Sonet promise with new transmission gear, by Carol Wilson, Oct. 30, p. 10.
AT&T reveals ACD enhancements, by Dawn Bushaus, Nov. 20, p. 16.
AT&T sued by computer firm, by Paul Travis, Sept. 18, p. 9.
AT&T technicians face layoffs, by Laura O'Brien, Oct. 30, p. 23.
AT&T to reveal Sonet products, Oct. 23, p. 3.
AT&T trims down for the '90s, by Paul Travis, Dec. 18, p. 9.
AT&T wins big Unisys contract, Sept. 18, p. 3.
AT&T, NTT sign equipment deal, by Charles Mason, July 24, p. G.
AT&T/NTT sign major pact for fiber optic equipment, by Charles Mason, July 17, p. 8.
Bell Atlantic puts NT's ACD system to work, by Carol Wilson, Nov. 6, p. 9.
Bell Atlanticom to market NTI business sets, Aug. 28, p. 25.
Butters named to NTI post, July 10, p. 3.
CLASS goes public at No. Telecom, by Dawn Bushaus, Nov. 13, p. 18.
Contract shortage forces slowdown, by Laura O'Brien, Sept. 25, p. 20.
Elcotel offers public fax gear, by Laura O'Brien, Sept. 25, p. 29.
Ericsson wins SWBT switch pact, Oct. 23, p. 3.
Fujitsu expands F9600 PBX line, July 24, p. 3.
Fujitsu lands first major Sonet contract with RHC, by Carol Wilson, Dec. 4, p. 9.
Fujitsu seals FO contract, Nov. 27, p. 15.
GE plastics fight corrosion, by Laura O'Brien, Aug. 14, p. 27.
Manitoba, Stromberg ink switch deal, Sept. 25, p. 30.
Motorola cuts work force, by Laura O'Brien, Oct. 9, p. 19.
Motorola wins Spanish contract, Sept. 4, p. 13.
NCR aims for ISDN products, Sept. 25, p. 27.
NEC develops ISDN PRI, Oct. 9, p. 24.
Network tools share AT&T spotlight, by Carol Wilson, Nov. 6, p. 12.
No. Telecom gets foot into BT door, by Carol Wilson, July 10, p. 12.
No. Telecom gets foot into BT door, by Carol Wilson, July 24, p. G.
Northern shows FiberWorld, Oct. 16, p. 3.
Northern signs B.C. Tel deals, Sept. 4, p. 3.
Northern Telecom jumps on Sonet bandwagon, by Carol Wilson, Oct. 16, p. 8.
NT lifts veil on broadband, SONET gear, Oct. 9, p. 3.
NTI tests ISDN with MCI, Sprint, Dec. 11, p. 24.

NTI withdraws DNS from market, by Dawn Bushaus, Sept. 11, p. 16.
NTI, Mich. Bell test automated billing service, by Dawn Bushaus, Aug. 28, p. 10.
Reliance forms transmission group, Aug. 7, p. 19.
Rockwell cuts Texas staff, Aug. 28, p. 22.
Siemens boosts Asmussen, Jung, by Laura O'Brien, Nov. 13, p. 9.
Siemens marks millionth line, Oct. 2, p. 12.
Siemens wins switch order from Bell Atlantic, by Carol Wilson, Nov. 27, p. 10.
Stromberg wins Pac Bell pact, Oct. 30, p. 23.
Svedberg named Ericsson chairman, Dec. 18, p. 12.
Toshiba expands U.S. facilities, by Laura O'Brien, July 31, p. 21.
Toshiba unveils new PBX, by Laura O'Brien, Sept. 11, p. 18.
U S West orders Ericsson AXEs, by Paul Travis, Dec. 25, p. 9.
Unisys creates division to handle telcos, by Dawn Bushaus, July 10, p. 13.
Vadis announces ISDN PC system, by Dawn Bushaus, July 10, p. 12.

MARKETING

Are you truly market-driven?, by D. Michael Maxwell and Joseph Steele, July 3, p. 24.

MERGERS & ACQUISITIONS

ATC buys Telus, sees market gain, Sept. 25, p. 30.
BellSouth ups LIN ante, Oct. 30, p. 3.
British Telecom buys Tymnet, by John Williamson, Aug. 28, p. E.
Contel to buy Telos Corp., by Laura O'Brien, Oct. 16, p. 17.
Digitel acquire Tel Plus branch, by Laura O'Brien, Sept. 25, p. 15.
IBM completes sale of Rolm, Aug. 21, p. 3.
LIN kills BellSouth merger, backs new offer from McCaw, by Paul Travis, Dec. 11, p. 8.
LIN takeover by McCaw hits standstill, July 31, p. 3.
McCaw acquires funds for LIN, Nov. 20, p. 21.
McCaw knocks BellSouth out in fight for LIN, by Paul Travis, Dec. 18, p. 9.
McCaw may up bid for LIN shares, July 17, p. 3.
McCaw ups the ante for LIN, Nov. 27, p. 8.
Mitel seeks to buy Coradian, Dec. 11, p. 3.
Mtel to acquire U.K. paging firm, Sept. 18, p. 27.
NEC to buy PBX business from Tel Plus, by Dawn Bushaus, July 24, p. 16.
Nycom, Amnex to join forces, Sept. 18, p. 24.
Plessey battle enters final phase, Aug. 28, p. D.
Plessey takeover may end in draw, by John Williamson, July 10, p. 11.
Plessey takeover moves forward, Aug. 7, p. 3.
PTI purchases Anchorage telco, Aug. 28, p. 23.
Rochester buys another telco, by Dawn Bushaus, Sept. 18, p. 22.
Rochester Tel acquires fifth Wis. telco, Nov. 6, p. 23.
Sorbus merges with Control Data maintenance, Nov. 6, p. 20.
SP Telecom to buy Digital Signal, Nov. 27, p. 11.
Sprint buys IXC in Honolulu, Aug. 21, p. 3.
Telecom*USA buys Async, Sept. 25, p. 22.
Timplex enters T-3 market, Sept. 18, p. 27.
U S West pays $345 M for FSA, Oct. 9, p. 14.

MICROWAVE

The microwave factor in disaster recovery, by James E. Innes, Oct. 9, p. 38.

MOBILE COMMUNICATIONS

Goeken files air phone plan, by Charles Mason, Aug. 14, p. 12.
Motorola to offer wristwatch pager, by Dawn Bushaus, July 31, p. 10.

NATIONAL TELECOMMUNICATIONS AND INFORMATION ADMINISTRATION

Feds should back fiber deployment, Oct. 9, p. 3.
NTIA launches spectrum study, Oct. 16, p. 21.
NTIA to regain its independence, Sept. 11, p. 3.

NETWORK PLANNING & TECHNOLOGY

AT&T, BellSouth test MAN in Atlanta, by Paul Travis, Dec. 25, p. 12.
BASE will be the bridge between POTS and ISDN, by Glenn Hall, Sept. 11, p. 28.
The building block for the intelligent network, by Vinod K. Batra, Nov. 20, p. 56.
A commitment to continuity, by Karen C. Shallenberg, Dec. 11, p. 45.
Crash-proof fiber rings, by Tom Helmes, Aug. 21, p. 22.
Intelligent networks: A modular approach, by Abdul Lakhani and Tom L. Schaffnit, Oct. 23, p. 48.
Managing digital cross-connects: GTE tames new technology, by Rick Quirk, Sept. 18, p. 36.
The metamorphosis of the network, by Anthony Lavia, Dec. 25, p. 28.
A network survival game plan, by Wayne Ergle, Aug. 21, p. 24.
New telecom architecture wins patents, by Carol Wilson, July 24, p. 9.
Operating between a rock and a hard place, by Nathan J. Muller and Robert P. Davidson, Sept. 18, p. 54.
Survival of the network, by Carol Wilson and Ann Lindstrom, Oct. 23, p. 38.
Taking the hybrid road, by Steve Harman and Stephen Fleming, Dec. 18, p. 72.

OBITUARY

BLAIN Ray Blain, retired TELEPHONY editor, Nov. 20, p. 26.

OPEN NETWORK ARCHITECTURE

New ONA plans draw attacks, July 17, p. 3.

OUTSIDE PLANT

Are the skies friendly for fiber optic cable?, by Daniel L. Pope, Aug. 7, p. 38.
Is the industry facing a copper crisis, by Jeffrey Gottesman, Aug. 7, p. 45.
OSP on a downhill run, by Rich Wagley, Aug. 7, p. 24.
Turning copper into gold, by Louis A. Kemnitz, Aug. 7, p. 28.

PACKET SWITCHING

Nynex sets SMDS test, by Michael Warr, Oct. 30, p. 24.
SW Bell backs 'fast-packet' network trial, by Paul Travis, Dec. 4, p. 9.
Telenet links local packet nets, Aug. 21, p. 14.

POWER & ENERGY

CPE power in the 1990s, by George Pedersen, Nov. 27, p. 22.

PRICING

Coalition hits LEC price caps, Aug. 14, p. 3.
Justice Department opposes price caps for telcos, by Charles Mason, July 31, p. 10.
LEC caps may move to front burner, by Charles Mason, Oct. 2, p. 16.
LECs bash AT&T over price caps, Aug. 7, p. 3.
New York Telephone price-cap plan draws praise, by Charles Mason, Sept. 25, p. 9.
Telcos get price caps in 1991, FCC decides, Dec. 25, p. 3.

RATES

NY Tel, PSC staff strike deal, Dec. 18, p. 17.

REGIONAL HOLDING COMPANIES

Ameritech AIN plan coming, Oct. 2, p. 3.
Ameritech creates IN laboratory, by Dawn Bushaus, July 3, p. 16.
Ameritech first with SS7 links, Nov. 27, p. 3.
Ameritech invests in Touch, Sept. 25, p. 31.
Ameritech plans 1191 AIN launch, by Carol Wilson, Oct. 9, p. 9.
Ameritech plans network monitor tariff filing, Nov. 20, p. 19.
Ameritech quiets angry librarians, by Laura O'Brien, July 31, p. 13.
Ameritech shifts top executives, by Dawn Bushaus, July 17, p. 9.
Ameritech signs cellular pact, Sept. 11, p. 3.
Ameritech unit inks dealer pact, Oct. 16, p. 19.
Bell Atlantic boosts third-party reseller program, by Dawn Bushaus, Oct. 16, p. 19.
Bell Atlantic cuts managers, reorganizes, Sept. 18, p. 3.
Bell Atlantic forms German unit, by Dawn Bushaus, Sept. 25, p. 12.
Bell Atlantic protests pact, Oct. 23, p. 30.
Bell Atlantic provides EDI, Dec. 18, p. 16.
Bell Atlantic puts NT's ACD system to work, by Carol Wilson, Nov. 6, p. 9.
Bell Atlantic touts ISDN software, Oct. 30, p. 12.
Bell Atlantic wins audiotex billing battle, by Charles Mason, July 3, p. 9.
Bell Atlanticom to market NTI business sets, Aug. 28, p. 25.
BellSouth joins GEC, Plessey in PCN bid, by John Williamson, July 24, p. 14.
BellSouth unveils net management, by Paul Travis, Sept. 4, p. 10.
BellSouth ups LIN ante, Oct. 30, p. 3.
BellSouth wins Puerto Rico pact, Aug. 28, p. 24.
Celebrating pluralism all year round, by Carol Wilson, Dec. 25, p. 27.
Cellular giant emerges from BellSouth, LIN merger, by Laura O'Brien, Sept. 18, p. 8.
Fujitsu lands BellSouth order, Aug. 21, p. 13.
Fujitsu lands first major Sonet contract with RHC, by Carol Wilson, Dec. 4, p. 9.
Gibraltar, Nynex details emerge, by John Williamson, Oct. 9, p. 15.
Greene kills triennial review, by Charles Mason, July 24, p. 8.
Lack of triennial review gives RHCs ammunition, by Charles Mason, July 31, p. 11.
Nynex picks up two VMS vendors, Oct. 2, p. 30.
Nynex sets SMDS test, by Michael Warr, Oct. 30, p. 24.
Nynex sweetens pension plan for managers, Dec. 25, p. 3.
Nynex wins Gibraltar deal, Sept. 25, p. 3.
Nynex's bonds downgraded, Sept. 18, p. 19.
Nynex, Dacom sign agreement, by Laura O'Brien, July 24, p. 21.
PacTel drops gateway plans, by Paul Travis, Oct. 16, p. 10.
PacTel seeks CATV waiver, by Charles Mason, Dec. 25, p. 13.
Prodigy signs first RHC pact, Dec. 11, p. 3.
RHC opponents on the attack, by Charles Mason, July 31, p. 13.
RHCs favored in German cell bid, Dec. 4, p. 3.
RHCs move into national paging, July 3, p. 3.
Siemens wins switch order from Bell Atlantic, by Carol Wilson, Nov. 27, p. 10.
Smith lobbies for broadband policy change, Sept. 25, p. 3.
Smith takes helm at Bell Atlantic, July 10, p. 11.
Southwestern restructures, Nov. 20, p. 3.
SW Bell delays switch purchase, by Paul Travis, Aug. 14, p. 9.
SW Bell seeks to design CPE, by Charles Mason, Nov. 27, p. 8.
SWB buys into U.K. CATV industry, Nov. 27, p. 11.
U S West cable inks U.K. pacts, by Laura O'Brien, July 17, p. 8.
U S West ends CPE sales to small business, Dec. 18, p. 3.
U S West eyes CT2 validation, by John Williamson, Oct. 16, p. 19.
U S West group gets Hong Kong cable TV franchise, by John Williamson and Dawn Bushaus, Aug. 7, p. 8.
U S West leaps into X.400, Nov. 20, p. 3.
U S West offers early retirement, Dec. 11, p. 23.
U S West orders Ericsson AXEs, by Paul Travis, Dec. 25, p. 9.
U S West pushes ISDN service, Nov. 27, p. 14.
U S West readies new fax service, Dec. 25, p. 13.
U S West settles suit, Oct. 2, p. 3.
U S West unit buys SCP from DSC-DEC, by Carol Wilson, Dec. 18, p. 10.
Whitacre steps in at SW Bell, by Carol Wilson, Nov. 27, p. 9.

REGULATORY POLICY

Businesses fight rate reform, July 31, p. 3.
Calif. adopts new rate plan, by Charles Mason, Oct. 23, p. 15.
Calif. considers pay phone pact, by Laura O'Brien, Aug. 14, p. 14.
Calif. PUC denies 900 services, Dec. 4, p. 17.
Calif. PUC gets rate reform plan, Aug. 21, p. 3.
ICC appointees come under fire, by Dawn Bushaus, Oct. 30, p. 23.
Neb. court backs deregulation, by Dawn Bushaus, Sept. 18, p. 10.
Ohio sets rules for operators, July 24, p. 3.
Pa. accepts caller ID with blocking, Nov. 13, p. 3.
Pa. PUC to decide fate of Caller*ID, by Dawn Bushaus, Oct. 23, p. 15.
Regulatory summit set for next year, by Charles Mason, Nov. 20, p. 11.
States step up to the challenge, by Frederick Williams, Oct. 16, p. 49.
SWBT seeks regulatory change, Oct. 30, p. 16.
U S West, WUTC propose rate plan, by Dawn Bushaus, Oct. 9, p. 12.

RESEARCH & DEVELOPMENT

Bellcore, SWB play telephone hi-fi, by Michael Warr, Sept. 25, p. 9.
DARE squelches background noise, by Laura O'Brien, Nov. 6, p. 23.
Scientists create smallest laser, July 24, p. 16.

RURAL & REMOTE TELECOMMUNICATIONS

An alarming solution, by Bob Fuhrman, July 3, p. 22.
BETRS just keeps getting better, by Donald L. Gustafson, July 24, p. 42.
The rural telecom dilemma, by John Williamson, July 24, p. 26.

SATELLITE COMMUNICATIONS

Contel to launch second satellite, by Laura O'Brien, July 24, p. 14.
GE to build AT&T satellites, Aug. 28, p. 3.
IBM sells satellites, by Paul Travis, July 17, p. 9.
PanAmSat sues Comsat, by Charles Mason, July 31, p. 14.

SWITCHING TECHNOLOGY
CLASS is coming to Chicago, by Dawn Bushaus, Aug. 14, p. 24.
Which way do we go?, by Paul Travis, July 3, p. 32.

TAXES
Committee kills utility tax bill, Oct. 16, p. 3.
Senate considers utility taxes, by Charles Mason, Sept. 18, p. 30.

TELECOMMUNICATIONS INDUSTRY
Administration still debating MFJ position, Nov. 6, p. 3.
ANPA attacked on MFJ efforts, by Charles Mason, Oct. 16, p. 21.
Billing systems: The next generation, by Alan A. Burgess, Sept. 4, p. 28.
Bush administration looks at options for changing MFJ, by Charles Mason, Oct. 9, p. 8.
Chances for MFJ action this year seem unlikely, by Charles Mason, Nov. 6, p. 8.
Coalition calls for lower LEC rate of return, by Charles Mason, Oct. 30, p. 11.
Commerce cites Asian dumping, July 31, p. 3.
CompTel claims LECs overcharge, Oct. 2, p. 3.
Court upholds Arco ruling, Sept. 25, p. 3.
Dialing away U.S. area codes, by Laura O'Brien, Nov. 13, p. 11.
Equal access now at 90, Aug. 28, p. 23.
Focus on LEC diversification, by David L. Wenner, Dec. 11, p. 36.
Free phone calls are coming—with ads, by Paul Travis, Dec. 11, p. 18.
Hacker charged in voice mail case, by Dawn Bushaus, July 10, p. 10.
How fast is new technology coming?, by Lawrence K. Vanston, Ralph C. Lenz and Richard S. Wolff, Sept. 18, p. 48.
McGowan, Weiss joust over deregulation, by Dawn Bushaus, Aug. 14, p. 27.
MFJ debate moves forward, Oct. 16, p. 3.
Michigan looks at the future, by Laura O'Brien, July 3, p. 13.
Most service restored after Hugo's attack, by Dawn Bushaus, Oct. 2, p. 20.
Obuchowski to head NTIA, by Charles Mason, July 17, p. 9.
OSS—The wave of the future, by Laura O'Brien, July 10, p. 13.
RRRS telco hits equal access requirements, by Dawn Bushaus, July 24, p. 9.
Sales agency program picks up, NATA study says, by Laura O'Brien, Nov. 6, p. 21.
Spending strategie$ for the 1990s, by Leo Anderson and Czatdana Inan, Dec. 18, p. 30.
States step up to the challenge, by Frederick Williams, Oct. 16, p. 49.
Telephone rates increased in '88, by Charles Mason, Aug. 14, p. 10.
U.S., Japan settle trade dispute; telecom market restrictions eased, by Charles Mason, July 3, p. 8.

TELECOMMUNICATIONS SERVICE
Congress moves on TDD network, by Charles Mason, Sept. 18, p. 18.
Nintendo aims at finances, Oct. 16, p. 13.
Telephoned zap saves patient, July 10, p. 3.

TELECOMMUNICATIONS STANDARDS
Alcatel, Siemens spawn new PBX standard, by John Williamson, Dec. 4, p. 17.
Can RHCs unify under INA vision, by Carol Wilson and Dawn Bushaus, July 3, p. 13.
ONA takes another hit, by Charles Mason, Aug. 21, p. 13.
PictureTel plans Px64 software, by Dawn Bushaus, Sept. 18, p. 24.
Sonet standards suffer setback, by Michael Warr, Nov. 13, p. 8.

TELECONFERENCING & VIDEOCONFERENCING
Bellcore opens a VideoWindow, by Michael Warr, Aug. 14, p. 30.

TELEPHONE HOLDING COMPANIES
Contel, United trade telcos, by Paul Travis, July 17, p. 8.
GTE attacks Goeken's plan, Oct. 16, p. 3.
GTE breaks ground in Texas, Aug. 14, p. 24.
GTE makes late bid for European mobile licenses, by Peter Purton, Sept. 25, p. 12.
HSN gives up battle with GTE, Nov. 6, p. 3.
United Telecom, US Sprint reorganize, Oct. 16, p. 8.
William Esrey: Man with a vision, Oct. 16, p. 38.

TELEPHONY MAGAZINE
COVER STORIES
July 3, Are you truly market-driven, p. 24
July 10, Audiotex vs. videotex, p. 26,
July 17, Centrex II: The telcos' revenge, p. 26.
July 24, The Asia Pacific and ISDN, p. 34.
July 31, An industry divided, p. 30.
Aug. 7, Turning copper into gold, p. 28.
Aug. 14, On the horizon, p. 48.
Aug. 21, FO network survival game plan, p. 24.
Aug. 28, U.S. telecom vendors go global, p. 34.
Sept. 4, To boldly go where no product has gone before, p. 28.
Sept. 11, Weaving an alternative, p. 48.
Sept. 18, How fast is new technology coming, p. 48.
Sept. 25, Man in the ITU hot seat, p. 48.
Oct. 2, The Valdez experience, p. 44.
Oct. 9, Hop on the enhanced services express, p. 32.
Oct. 16, A man with vision, p. 38.
Oct. 23, Network survives Hugo, p. 38.
Oct. 30, Follow the yellow brick road, p. 34.
Nov. 6, Fiber optics to the rescue!, p. 50.
Nov. 13, It's time to break some eggs, p. 42.
Nov. 20, SS7: on the fast track, p. 48.
Nov. 27, The European mobile revolution, p. 28.
Dec. 4, ACD is hot, hot, hot!, p. 38.
Dec. 11, Focus on LEC diversification, p. 38.
Dec. 18, Spending strategies for the 1990s, p. 30.
Dec. 25, Celebrating pluralism all year round, p. 27.

TELEPHONY MAGAZINE
OTHER
1989 Ray Blain Award Nominees, Sept. 4, p. 26.
1989 Ray Blain Outside Plant Achievement Awards, by Lloyd F. Brisk, Sept. 4, p. 24.

TEST & MEASUREMENT
Telcos are singing the bargain basement blues, by Michael Warr, Oct. 2, p. 38.

TRANSMISSION TECHNOLOGY
AT&T 'M' series microchip speeds transmission, by Michael Warr, Oct. 30, p. 26.
Decisions for future growth, by Steven Neveroski, Aug. 14, p. 34.
Don't leave your control logic in the dark, by Maynard A. Wright, Sept. 11, p. 57.
The evolution of the channel bank, by Greg Nulty, July 10, p. 19.
An industry divided, by Laura O'Brien, July 31, p. 30.
New restoration technology tested, by Dawn Bushaus, Sept. 18, p. 30.
Signal purity in high-capacity cross-connects, by Gary Davison, Aug. 14, p. 40.
Sonet: problem or opportunity?, by Gilbert L. Pringle, Aug. 14, p. 61.
SS7 gateways serve and protect, by Cheryl Buckles, Nov. 20, p. 39.
SS7 to the rescue, by Terry Yake and Ronald Staub, Dec. 18, p. 24.
SS7: on the fast track, by Carol Wilson, Nov. 20, p. 48.
Teaching old cross-connects new tricks, by Robert Conroy, Aug. 14, p. 48.
To float or not to float? That is the question for Sonet mapping, by Robert W. Cubbage and Paul A. Littlewood, Oct. 2, p. 52.

UNITED STATES TELEPHONE ASSN.
Building bridges to the future, by Deborah Pfeiffer, Sept. 18, p. 44.
Changing of the guard, by Charles Mason, Oct. 16, p. 34.
USTA big spender with lawmakers, by Charles Mason, July 17, p. 14.
USTA lobbies broadcasters, July 3, p. 3.

VIDEOTEX & AUDIOTEX
Audiotex is coming out of its shell, by Jack Lawless, July 10, p. 21.
Audiotex services come to Boston, Aug. 28, p. 22.
C&P adds services to videotex list, Nov. 13, p. 24.
Cities launch videotex project, by Charles Mason, Aug. 28, p. 21.
Follow the yellow brick road, by Fredric Saunier, Oct. 30, p. 34.
Pac Bell touts video classroom, Oct. 2, p. 3.
A skeptic's view of videotex, by Bick Truet and Mark Hermann, July 10, p. 26.
U S West plans IXC access to white pages, by Charles Mason, Nov. 13, p. 14.
Videotex enters another dimension, by Jean-Pierre Temime, Sept. 25, p. 59.
Videotex group seeks quotes, Sept. 25, p. 20.
Videotex industry renews optimism, by Charles Mason, July 10, p. 11.
Videotex service operators push for cheap terminals, by Charles Mason, Sept. 11, p. 8.

DEPARTMENTS
AM REPORT
July 3, p. 3; July 10, p. 3; July 17, p. 3; July 24, p. 3; July 31, p. 3; Aug. 7, p. 3; Aug. 14, p. 3; Aug. 21, p. 3; Aug. 28, p. 3; Sept. 4, p. 3; Sept. 11, p. 3; Sept. 18, p. 3; Sept. 25, p. 3; Oct. 2, p. 3; Oct. 9, p. 3; Oct. 16, p. 3; Oct. 23, p. 3; Oct. 30, p. 3; Nov. 6, p. 3; Nov. 13, p. 3; Nov. 20, p. 3; Nov. 27, p. 3; Dec. 4, p. 3; Dec. 11, p. 3; Dec. 18, p. 3; Dec. 25, p. 3.

CONTRACTS
Aug. 14, p. 14.

EDITORIALS
July 3, A network in search of a need, by Carol Wilson, p. 6.
July 10, The social good, by Susan Ubis, p. 6.
July 17, The telecom dog days, by Larry Lannon, p. 6.
July 24, Shhh!, by John Williamson, p. 6.
July 31, Hype worked for Batman, why not ISDN?, by Michael Warr, p. 6.
Aug. 7, Good potatoes, bad potatoes, by Frank Brisk, p. 6.
Aug. 14, The new majority, by Paul Travis, p. 6.
Aug. 21, Summertime blues, by Carol Wilson, p. 6.
Aug. 28, Man in the hot seat, by John Williamson, p. 6.
Sept. 4, I'm not laughing anymore, by Paul Travis, p. 6.
Sept. 11, A challenge for Canada, by Carol Wilson, p. 6.
Sept. 18, A perfect fit, by Larry Lannon, p. 6.
Sept. 25, What sort of Christmas present is PCN?, by John Williamson, p. 6.
Oct. 2, Bringing videotext home to meet Mom, by Charles Mason, p. 6.
Oct. 9, Take me out to the ballgame?, by Carol Wilson, p. 6.
Oct. 16, The market development dilemma blues, by Karen Woodward, p. 6.
Oct. 23, The more things change . . . , by Paul Travis, p. 6.
Oct. 30, The Party Line Polka, by Michael Warr, p. 8.
Nov. 6, Read between the lines, by Lloyd F. Brisk, p. 6.
Nov. 13, The heat is on, by Carol Wilson, p. 6.
Nov. 20, The end of an era, by Susan Ubis, p. 8.
Nov. 27, The big picture, by John Williamson, p. 6.
Dec. 4, Waiting for Congress, by Paul Travis, p. 6.
Dec. 11, Opening day, SUPERCOMM season, by Larry Lannon, p. 6.
Dec. 18, What will 1990 bring?, by Carol Wilson, p. 6.
Dec. 25, Neither saints nor sinners, by John Williamson, p. 6.

LETTERS
July 24, p. 22; Aug. 14, p. 32; Nov. 6, p. 34; Dec. 4, p. 28; Dec. 11, p. 27; Dec. 18, p. 18; Dec. 25, p. 17.

MEETINGS
July 3, p. 21; July 10, p. 18; July 17, p. 21; July 24, p. 23; July 31, p. 24; Aug. 7, p. 20; Aug. 14, p. 33; Aug. 21, p. 20; Aug. 28, p. 26; Aug. 28, p. H; Sept. 4, p. 23; Sept. 11, p. 27; Sept. 18, p. 35; Sept. 25, p. 32. Oct. 2, p. 35; Oct. 9, p. 26; Oct. 16, p. 28; Oct. 23, p. 34; Oct. 30, p. 27; Nov. 6, p. 36; Nov. 13, p. 29; Nov. 20, p. 38; Nov. 27, p. 19; Dec. 4, p. 31; Dec. 11, p. 29; Dec. 18, p. 21; Dec. 25, p. 18.

MERITS & MILESTONES
July 10, p. 28; July 31, p. 45; Aug. 14, p. 65; Sept. 25, p. 66; Oct. 16, p. 54; Oct. 30, p. 47; Nov. 13, p. 52; Nov. 27, p. 40; Dec. 18, p. 76.

MOVING AROUND INDUSTRY
July 3, p. 56; July 10, p. 48; July 17, p. 54; July 24, p. 72; July 31, p. 64; Aug. 7, p. 68; Aug. 14, p. 84; Aug. 21, p. 52; Aug. 28, p. 68; Sept. 4, p. 60; Sept. 11, p. 84; Sept. 18, p. 84; Sept. 25, p. 96; Oct. 2, p. 84; Oct. 9, p. 60; Oct. 16, p. 72, Oct. 23, p. 72; Oct. 30, p. 64; Nov. 6, p. 88; Nov. 13, p. 72; Nov. 20, p. 88; Nov. 27, p. 68; Dec. 4, p. 64; Dec. 11, p. 68; Dec. 18, p. 96; Dec. 25, p. 48.

NEW PRODUCTS & SERVICES
July 3, p. 43; July 10, p. 29; July 17, p. 39; July 24, p. 48; July 31, p. 46; Aug. 7, p. 48; Aug. 14, p. 66; Aug. 21, p. 37; Aug. 28, p. 56; Sept. 4, p. 44; Sept. 11, p. 66; Sept. 18, p. 62; Sept. 25, p. 68; Oct. 2, p. 64; Oct. 9, p. 45; Oct. 16, p. 56; Oct. 23, p. 57; Oct. 30, p. 48; Nov. 6, p. 65; Nov. 13, p. 54; Nov. 20, p. 68; Nov. 27, p. 42; Dec. 4, p. 47; Dec. 11, p. 51; Dec. 18, p. 78; Dec. 25, p. 33.

NEWSBYTES
July 3, p. 18; July 10, p. 17; July 17, p. 18; July 24, p. 21; July 24, p. H; July 31, p. 20; Aug. 14, p. 22; Aug. 21, p. 19; Aug. 28, p. 25; Sept. 11, p. 22; Sept. 18, p. 22; Sept. 25, p. 22; Oct. 9, p. 22; Oct. 16, p. 14; Oct. 23, p. 31; Nov. 6, p. 28; Nov. 13, p. 22; Nov. 20, p. 34; Dec. 11, p. 23; Dec. 18, p. 17; Dec. 25, p. 16.

THE WAY WE WERE
July 24, p. 46; Aug. 7, p. 47; Aug. 21, p. 34; Sept. 4, p. 43; Sept. 18, p. 61; Oct. 2, p. 62; Oct. 23, p. 52; Nov. 6, p. 62; Nov. 20, p. 66; Dec. 4, p. 46; Dec. 25, p. 32.

AUTHORS
AITCHISON, RONALD G.F.
It's time to break some eggs, Nov. 13, p. 42.

ANDERSON, LEO
Spending strategie$ for the 1990s, Dec. 18, p. 30.

BASS, RUSSELL
Serving up ISDN at Hardee's, July 31, p. 38.

BATRA, VINOD K.
The building block for the intelligent network, Nov. 20, p. 56.

BOWER, LEON M.
Fiber optics to the rescue!, Nov. 6, p. 50.

BRISK, LLOYD F.
1989 Ray Blain Outside Plant Achievement Awards, Sept. 4, p. 24.
ICUEE '89 draws record crowds, Oct. 16, p. 29.
Is your shopping list ready?, Sept. 4, p. 34.

BUCKLES, CHERYL
SS7 gateways serve and protect, Nov. 20, p. 39.

BURGESS, ALAN A.
Billing systems: The next generation, Sept. 4, p. 28.

BUSHAUS, DAWN
Ameritech creates IN laboratory, July 3, p. 16.
Ameritech shifts top executives, July 17, p. 10.
Ames charts U S West course, Nov. 13, p. 11.
And then there was one: CWA, two more RHCs settle, Sept. 4, p. 8.
AT&T offers new billing service, Sept. 4, p. 11.
AT&T reveals ACD enhancements, Nov. 20, p. 16.
Bell Atlantic boosts third-party reseller program, Oct. 16, p. 19.
BellSouth settles with CWA, Aug. 14, p. 9.
Can RHCs unify under INA vision?, July 3, p. 13.
CLASS goes public at No. Telecom, Nov. 13, p. 18.
CLASS is coming to Chicago, Aug. 14, p. 24.
Cubs fever hits Illinois Bell network, Oct. 2, p. 20.
CWA rejects new Nynex offer, Sept. 18, p. 14.
CWA rejects tentative pact with PacTel, Oct. 2, p. 15.
CWA, legislators pressure Nynex, Nov. 6, p. 18.
DSC, Motorola sign cellular pact, Aug. 14, p. 30.
Fiber to the home: A family affair, TELEPHONY'S Transmission Special, Nov. 1989, p. 27.
GTE, CWA settle union contract, July 17, p. 9.
Hacker charged in voice mail case, July 10, p. 10.
ICC appointees come under fire, Oct. 30, p. 23.
Illinois Bell, AT&T link ISDN internationally, Dec. 4, p. 16.
Illinois Bell, IBEW reach tentative three-year contract, July 10, p. 10.
Indiana Bell tests 'smart house,' Nov. 27, p. 14.
McGowan, Weiss joust over deregulation, Aug. 14, p. 27.
MFS, U S West lock horns, Oct. 9, p. 19.
Most service restored after Hugo's attack, Oct. 2, p. 20.
Motorola to offer wristwatch pager, July 31, p. 10.
Motorola, Tandy settle dispute, Nov. 20, p. 14.
N.J. Bell, IBEW reach accord, Sept. 11, p. 22.
Neb. court backs deregulation, Sept. 18, p. 10.
NEC to buy PBX business from Tel Plus, July 24, p. 16.
New restoration technology tested, Sept. 18, p. 30.
NIU Forum delays ISDN Event plans, Oct. 23, p. 14.
NTI withdraws DNS from market, Sept. 11, p. 16.
NTI, Mich. Bell test automated billing service, Aug. 28, p. 10.
Nynex breaks off CWA talks, reaches firm pact with IBEW, Nov. 27, p. 8.
Nynex contract puzzles analysts, Dec. 4, p. 10.
Nynex, unions come to terms over health care issues, Nov. 20, p. 10.
Pa. PUC to decide fate of Caller*ID, Oct. 23, p. 15.
Pac Bell proposes $135-million rate cut, Nov. 6, p. 20.
Pac Bell reveals ISDN plans, Nov. 6, p. 14.
Pac Bell, CWA reach agreement, Oct. 30, p. 12.
PacTel, CWA come to terms, Aug. 28, p. 9.
PictureTel plans Px64 software, Sept. 18, p. 24.
RHCs, CWA face deadlines, Aug. 7, p. 8.
Rochester buys another telco, Sept. 18, p. 22.
RRRS telco hits equal access requirements, July 24, p. 9.
Shopping network loses to GTE, Aug. 7, p. 14.
Sprint announces 1990 ISDN debut, Sept. 4, p. 9.
SW Bell modernization plan revived after Missouri rate settlement, Oct. 2, p. 8.
SWBT begins 'medical imaging,' Dec. 4, p. 24.
SWBT seeks regulatory change, Oct. 30, p. 16.
Teleport to serve four more cities, Oct. 9, p. 22.
U S West gets Hong Kong cable, Aug. 28, p. F.
U S West group gets Hong Kong cable TV franchise, Aug. 7, p. 8.
U S West protests refund order, Oct. 30, p. 23.
U S West, WUTC propose rate plan, Oct. 9, p. 12.
Union local attacks New York Tel, Dec. 18, p. 10.
Union walkout hits Ameritech; two RHCs reach settlement, Aug. 21, p. 8.
Unions attempt to pressure Nynex, Sept. 25, p. 10.
Unions fare well in health care battle, Oct. 2, p. 11.
Unions strike three regionals; more employee walkouts expected, Aug. 14, p. 8.
Unisys creates division to handle telcos, July 10, p. 13.
Vadis announces ISDN PC system, July 10, p. 12.
Weaving an alternative, Sept. 11, p. 48.

CARR, GREG C.
Hop on the enhanced services express, Oct. 9, p. 32.

CONROY, ROBERT
Teaching old cross-connects new tricks, Aug. 14, p. 48.

CUBBAGE, ROBERT W.
To float or not to float? That is the question for Sonet mapping, Oct. 2, p. 52.

DAVIDSON, ROBERT P.
Operating between a rock and a hard place, Sept. 18, p. 54.

DAVISON, GARY
Signal purity in high-capacity cross-connects, Aug. 14, p. 40.

EDWARDS, JIM
Dialing for dollars, Oct. 9, p. 28.

ERGLE, WAYNE
A network survival game plan, Aug. 21, p. 24.

ESREY, WILLIAM
William Esrey: Man with a vision, Oct. 16, p. 38.

FLEMING, STEPHEN
Taking the hybrid road, Dec. 18, p. 72.

FLORA, WARD D.
L.A. County gets the message, Aug. 21, p. 32.

FUHRMAN, BOB
An alarming solution, July 3, p. 22.

GALBRAITH, MICHAEL
AT&T looks for Japan VAN growth, Nov. 27, p. 15.
Japan's new IXCs see sales soar, Dec. 4, p. 20.
KDD lowers rates as competition looms in Japan, Sept. 25, p. 15.
KDD's competitors grab a share of Japan's long-distance business, Nov. 27, p. 16B.
LDP encourages NTT break-up, Nov. 6, p. 9.
LDP encourages NTT breakup, Nov. 27, p. 16D.
New competitors grab KDD business, Nov. 20, p. 23.
NTT announces accelerated plan for digitalization of network, Oct. 23, p. 36B.
NTT announces accelerated plan for digitalization, Oct. 2, p. 14.
NTT seeks big rate reduction, Dec. 11, p. 14.
NTT seeks big rate reduction, Dec. 25, p. 16D.
NTT to launch wide area paging, Oct. 23, p. 22.
Teleports gather interest, Nov. 27, p. 15.
U.S. execs advise Japan, Dec. 11, p. 24.

GOTTESMAN, JEFFREY
Is the industry facing a copper crisis?, Aug. 7, p. 45.

GRENIER, JEAN
Approaching 1992, July 24, p. 30.

GUSTAFSON, DONALD L.
BETRS just keeps getting better, July 24, p. 42.

HALL, GLENN
BASE will be the bridge between POTS and ISDN, Sept. 11, p. 28.

HARMAN, STEVE
Taking the hybrid road, Dec. 18, p. 72.

HARVILLE, RODNEY
Statesboro Tel sees the light, Nov. 6, p. 32.

HELMES, TOM
Crash-proof fiber rings, Aug. 21, p. 22.

HERMANN, MARK
A skeptic's view of videotex, July 10, p. 26.

HUDSON, KATHRYN A.
How do you account for that?, July 17, p. 34.

INAN, CZATDANA
$pending strategie$ for the 1990s, Dec. 18, p. 30.

INNES, JAMES E.
The microwave factor in disaster recovery, Oct. 9, p. 38.

JONES, SCOTT A.
Hop on the enhanced services express, Oct. 9, p. 32.

KEMNITZ, LOUIS A.
Turning copper into gold, Aug. 7, p. 28.

LAKHANI, ABDUL
Intelligent networks: A modular approach, Oct. 23, p. 48.

LAVIA, ANTHONY
The metamorphosis of the network, Dec. 25, p. 28.

LAWLESS, JACK
Audiotex is coming out of its shell, July 10, p. 21.

LENZ, RALPH C.
How fast is technology coming, Sept. 18, p. 48.

LINDSTROM, ANN
ICUEE '89 products run for the roses, Sept. 4, p. 38.
ISDN splashdown set for CN'90, Dec. 11, p. 33.
Survival of the network, Oct. 23, p. 38.
You say you want an evolution?: Update DLC, TELEPHONY'S Transmission Special, Nov. 1989, p. 52.

LITTLEWOOD, PAUL A.
To float or not to float? That is the question for Sonet mapping, Oct. 2, p. 52.

LUSH, RICHARD
ISDN CPE: Will it make your network obsolete?, Nov. 13, p. 30.

LUXNER, LARRY
AT&T completes link to Cuba, Aug. 28, p. 21.
AT&T plans Caribbean cable, July 24, p. 14.
Cellular gains foothold in South America, Nov. 6, p. 32.
CTC establishes emergency network, Nov. 6, p. 14.
Fiber to link offshore islands, Sept. 18, p. 24.
PRTC chief focuses on equal access, Sept. 25, p. 19.
PRTC, AT&T race to restore lines after Hugo hits Puerto Rico, Sept. 25, p. 8.
Puerto Rico basks in IXC limelight, Nov. 6, p. 19.
We'll be ready—next time, Oct. 23, p. 44.

MASON, CHARLES
ANPA attacked on MFJ efforts, Oct. 16, p. 21.
Appeals court hears arguments on MFJ changes, Dec. 11, p. 10.
AT&T and MCI battle heats off, Oct. 2, p. 24.
AT&T competitors wait for FCC, Nov. 20, p. 14.
AT&T loses $90 million Treasury contract—again, Dec. 25, p. 8.
AT&T mounts new attack at FCC, Aug. 14, p. 10.
AT&T moves to offer four new Tariff 12 options, July 10, p. 17.
AT&T ponders publishing move, Aug. 7, p. 14.
AT&T, NTT sign equipment deal, July 24, p. G.
AT&T/NTT sign major pact for fiber optic equipment, July 17, p. 8.
Bell Atlantic wins audiotex billing battle, July 3, p. 9.
Bush administration looks at options for changing MFJ, Oct. 9, p. 8.
Bypass activity increases in D.C., Aug. 14, p. 24.
Cable TV rates skyrocket, Aug. 14, p. 18.
Calif. adopts new rate plan, Oct. 23, p. 15.
Chances for MFJ action this year seem unlikely, Nov. 6, p. 8.
Changing of the guard, Oct. 16, p. 34.
Cities launch videotex project, Aug. 28, p. 21.
Coalition calls for lower LEC rate of return, Oct. 30, p. 11.
Congress moves on TDD network, Sept. 18, p. 18.
Dial-a-porn bill introduced, July 3, p. 13.
Duggan is FCC mystery man, Dec. 4, p. 17.
FCC accuses 10 BOCs with overcharging IXCs, Dec. 18, p. 8.
FCC approves AT&T CEI plan, Sept. 18, p. 14.
FCC Chairman Sikes calls for 'new, improved' network, Nov. 13, p. 8.
FCC kills strategic pricing for special access, orders refunds, Dec. 4, p. 8.
FCC OKs another Tariff 12 plan, July 24, p. 21.
FCC rejects MCI service to Spain, Sept. 4, p. 12.
FCC tries making tariff deadline, Oct. 30, p. 11.
Goeken files air phone plan, Aug. 14, p. 12.
Greene kills triennial review, July 24, p. 18.
Heavy agenda threatens progress on MFJ bill, Oct. 23, p. 8.
The honeymoon is just beginning for Congress, FCC, Sept. 25, p. 10.
House committee cautious on MFJ, Aug. 7, p. 13.
Justice Department opposes price caps for telcos, July 31, p. 10.
Lack of triennial review gives RHCs ammunition, July 31, p. 11.
Lawsuit upheld against U S West, July 3, p. 8.
LEC caps may move to front burner, Oct. 2, p. 16.
LEC groups attack rural legislation, July 10, p. 14.
MCI slaps AT&T with lawsuit over advertising, Oct. 16, p. 9.
MFJ, CATV head Markey's agenda, Dec. 25, p. 9.
NAB seeks CATV regulation, Oct. 2, p. 8.
New York Tel cites problems with incentive regulation plan, July 24, p. 8.
New York Telephone price-cap plan draws praise, Sept. 25, p. 9.
Obuchowski to head NTIA, July 17, p. 9.
ONA takes another hit, Aug. 21, p. 13.
PacTel seeks CATV waiver, Dec. 25, p. 13.
PanAmSat sues Comsat, July 31, p. 14.
Regulatory summit set for next year, Nov. 20, p. 11.
RHC opponents on the attack, July 31, p. 13.

Senate committee OKs FCC nominees, Aug. 7, p. 9.
Senate considers utility taxes, Sept. 18, p. 30.
Sikes gets FCC nomination, July 3, p. 9.
Sikes: FCC must help innovation, Sept. 18, p. 9.
SW Bell seeks to design CPE, Nov. 27, p. 8.
Telcos told to stop whining, Oct. 23, p. 9.
Telephone rates increased in '88, Aug. 14, p. 10.
U S West plans IXC access to white pages, Nov. 13, p. 14.
U S West responds to air crash, Aug. 28, p. 14.
U.S., Japan settle trade dispute; telecom market restrictions eased, July 3, p. 8.
U.S., Japan settle trade dispute; telecom market restrictions eased, July 24, p. E.
USTA big spender with lawmakers, July 17, p. 14.
Videotex industry renews optimism, July 10, p. 11.
Videotex service operators push for cheap terminals, Sept. 11, p. 8.

MAXWELL, D. MICHAEL
Are you truly market-driven, July 3, p. 24.

McPHERSON, JOHN
South Central Bell's CLASS act, July 31, p. 43.

McWALTERS, JIM
Looking for tools, July 31, p. 26.

MELHART, GARY
The competitive edge, Nov. 13, p. 46.

MOORE, DEAN
The Valdez experience: Life returns to normal after a hectic spring and summer, Oct. 2, p. 44.

MULLER, NATHAN J.
Operating between a rock and a hard place, Sept. 18, p. 54.

NEVEROSKI, STEVEN
Decisions for future growth, Aug. 14, p. 34.

NULTY, GREG
The evolution of the channel bank, July 10, p. 19.

O'BRIEN, LAURA
ACD business is booming, Dec. 4, p. 42.
Ameritech quiets angry librarians, July 31, p. 13.
AT&T hikes rates on leased phones, Nov. 13, p. 28.
AT&T technicians face layoffs, Oct. 30, p. 23.
AT&T, Intellicall settle lawsuit, Nov. 20, p. 16.
AT&T, LECs show low profits, Oct. 30, p. 18.
AT&T, VoiceCom forge link, Sept. 18, p. 22.
Bellcore speeds HDTV signals, Oct. 30, p. 25.
Calif. considers pay phone pact, Aug. 14, p. 14.
Carrier support brightens SONET's future, TELEPHONY'S Transmission Special, Nov. 1989, p. 8.
CBIS ventures into Europe, Nov. 6, p. 24.
Cellular giant emerges from BellSouth, LIN merger, Sept. 18, p. 8.
Cellular telephone growth hits milestone, Aug. 14, p. 12.
Contel to buy Telos Corp., Oct. 16, p. 17.
Contel to launch second satellite, July 24, p. 14.
Contract shortage forces slowdown, Sept. 25, p. 20.
Court shakes up Canadian telecommunications, Aug. 28, p. 8.
DARE squelches background noise, Nov. 6, p. 23.
Dialing away U.S. area codes, Nov. 13, p. 11.
Digitel acquires Tel Plus branch, Sept. 25, p. 15.
Elcotel offers public fax gear, Sept. 25, p. 29.
GE plastics fight corrosion, Aug. 14, p. 27.
Industry An industry divided, July 31, p. 30.
IXCs link with X.400 gateway, Oct. 30, p. 25.
IXCs post strong profits, Oct. 23, p. 19.
MCI introduces multisite reporting and switched 56, Oct. 9, p. 23.
Michigan looks at the future, July 3, p. 13.
Motorola cuts work force, Oct. 9, p. 19.
New products take off at TCA, Oct. 2, p. 22.
Nynex, Dacom sign agreement, July 24, p. 21.
OSS—The wave of the future, July 10, p. 13.
Pacts awarded for trans-Pacific fiber optic cable, Oct. 23, p. 26.
Sales agency program picks up, NATA study says, Nov. 6, p. 21.
Siemens boosts Asmussen, Jung, Nov. 13, p. 9.
Southern Pacific rides back into communications, Oct. 16, p. 14.
Sprint, Cezar head for court, Oct. 2, p. 30.
SW Bell plans voice messaging, Sept. 25, p. 29.
Telenet opens FAX network, Aug. 14, p. 22.
Timeplex enters T-3 market, Sept. 18, p. 27.
Toshiba expands U.S. facilities, July 31, p. 21.
Toshiba unveils new PBX, Sept. 11, p. 18.
U S West Cable inks U.K. pacts, July 17, p. 8.
U S West launches PRI in Arizona, Oct. 2, p. 9.
US Sprint unveils fractional T-1, Oct. 9, p. 24.
VMX goes after small businesses, Sept. 25, p. 22.
Voicemail wins big Italian deal, Aug. 21, p. 19.
Will the fax boom go bust?, Sept. 25, p. 38.

PAULSON, C. ROBERT
Let's go live, Oct. 30, p. 42.

PEDERSEN, GEORGE
CPE power in the 1990s, Nov. 27, p. 22.

PFEIFFER, DEBORAH
Building bridges to the future, Sept. 18, p. 44.
Fiber to the home: A family affair, TELEPHONY'S Transmission Special, Nov. 1989, p. 27.
Interconnect woes hit NATA show, Dec. 11, p. 10.
New products take off at TCA, Oct. 2, p. 22.
Unicom '89: Wheeling and dealing in Dallas, Oct. 30, p. 30.

PICKLE, PHILIP
ASU teaches its students what state of the art really means, Dec. 4, p. 34.

PITCHFORD, MARK
The digital transformation of the local loop, Nov. 6, p. 54.

POPE, DANIEL L.
Are the skies friendly for fiber optic cable?, Aug. 7, p. 38.

PRINGLE, GILBERT L.
Sonet: problem or opportunity, Aug. 14, p. 61.

PURTON, PETER
Eutelsat splits over new chief, Sept. 18, p. 10.
Eutelsat splits over new chief, Sept. 25, p. D.
Ferranti scandal may force takeover, Oct. 2, p. 34.
Germany awards cellular license, Dec. 25, p. 16D.
GTE makes late bid for European mobile licenses, Sept. 25, p. 12.
Italy to test Telepoint systems, Oct. 23, p. 36D.
PCN development hurts Telepoint, Aug. 7, p. 16.
Radio over fiber?, TELEPHONY'S Transmission Special, Nov. 1989, p. 48.
U.K. launches real ISDN, Nov. 27, p. 16B.
West ready to help East step into the 20th century, Nov. 20, p. 14.
West to help east step into the 20th century, Nov. 27, p. 16B.

QUARFORTH, JAMES
Centrex to the rescue, July 17, p. 22.

QUIRK, RICH
Managing digital cross-connects: GTE tames new technology, Sept. 18, p. 36.

RICHTER, M.J.
FCC to review status of AT&T, Oct. 23, p. 9.
Heavy agenda threatens progress on MFJ bill, Oct. 23, p. 8.
NARUC seeks data on telcos, Nov. 6, p. 28.

RINGLING, FRITZ W.
Going global, Aug. 28, p. 34.

SAUNIER, FREDRIC
Follow the yellow brick road, Oct. 30, p. 34.

SCHAFFNIT, TOM L.
Intelligent networks: A modular approach, Oct. 23, p. 48.

SHALLENBERG, KAREN C.
A commitment to continuity, Dec. 11, p. 45.

SHAO, STEPHEN P. JR.
Make your plans now, Nov. 27, p. 34.

STAUB, RONALD
SS7 to the rescue, Dec. 18, p. 24.

STEELE, JOSEPH
Are you truly market-driven, July 3, p. 24.

TAGARE, SUNIL
Investment frenzy!, Aug. 28, p. 50.

TEMIME, JEAN-PIERRE
Videotex enters another dimension, Sept. 25, p. 59.

TRAVIS, PAUL
AT&T sued by computer firm, Sept. 18, p. 9.
AT&T trims down for the '90s, Dec. 18, p. 9.
AT&T, BellSouth test MAN in Atlanta, Dec. 25, p. 12.
BellSouth unveils net management, Sept. 4, p. 10.
Contel, United trade telcos, July 17, p. 8.
Fiber trial powered by network, Nov. 13, p. 9.
Free phone calls are coming—with ads, Dec. 11, p. 18.
IBM sells satellites, July 17, p. 9.
LIN kills BellSouth merger, backs new offer from McCaw, Dec. 11, p. 8.
Major cellular deals announced, Oct. 9, p. 13 McCaw knocks BellSouth out in fight for LIN, Dec. 18, p. 9.
PacBell offers ISDN in all major cities, Dec. 11, p. 9.
PacTel drops gateway plans, Oct. 16, p. 10.
PacTel enters battle for PCNs, Aug. 21, p. 9.
SW Bell backs 'fast-packet' network trial, Dec. 4, p. 9.
SW Bell delays switch purchase, Aug. 14, p. 9.
Tel Plus sells PBX customers to NEC America, Dec. 25, p. 12.
U S West inks cellular deal with Hungarian PTT, Dec. 11, p. 8.
U S West inks cellular deal with Hungarian PTT, Dec. 25, p. 16B.
U S West orders Ericsson AXEs, Dec. 25, p. 9.
Which way do we go?, July 3, p. 32.
Williams uses FO switch in cutover, Sept. 11, p. 12.

TRUET, BICK
A skeptic's view of videotex, July 10, p. 26.

VANSTON, LAWRENCE K.
How fast is technology coming, Sept. 18, p. 48.

VINTON, BOB
WANs, MANs and CO LANs, TELEPHONY'S Transmission Special, Nov. 1989, p. 14.

VISBAL, JONATHAN
Will 1992 mean office automation opportunities in Europe?, Dec. 25, p. 22.

WAGLEY, RICH
OSP on a downhill run, Aug. 7, p. 24.

WALKER, HUGH
Ins and outs of DS1 and DS3 measurement, Sept. 11, p. 36.

WARR, MICHAEL
Agreement boosts FCCI prospects, Aug. 21, p. 13.
AT&T 'M' series microchip speeds transmission, Oct. 30, p. 26.
AT&T updates ISDN interfaces, Sept. 4, p. 19.
Bellcore opens a VideoWindow, Aug. 14, p. 30.
Bellcore, SWB play telephone hi-fi, Sept. 25, p. 9.
BISDN could debut in 1993, Nov. 6, p. 10.
Heathrow views switched digital video, July 24, p. 12.
InterLATA ISDN demonstrated, July 31, p. 11.
It might take a bus to get fiber home, TELEPHONY'S Transmission Special, Nov. 1989, p. 40.
More ISDN PRI from AT&T, July 3, p. 18.
Nothing but fiber in Southern Bell CO, Dec. 18, p. 12.
Nynex sets SMDS test, Oct. 30, p. 24.
The race is on for coherent lightwave, TELEPHONY'S Transmission Special, Nov. 1989, p. 22.
Sonet standards suffer setback, Nov. 13, p. 8.
SW Bell offers ISDN test drive, Aug. 21, p. 12.
SWBT tests new fiber technology, Sept. 11, p. 9.
Telcos are singing the bargain basement blues, Oct. 2, p. 38.
TV over fiber trial begins, Dec. 11, p. 22.

WENNER, DAVID L.
Focus on LEC diversification, Dec. 11, p. 36.

WHAPHAM, ROBERT
Fusion can bring fiber to the home, Nov. 6, p. 42.

WILLIAMS, FREDERICK
States step up to the challenge, Oct. 16, p. 49.

WILLIAMSON, JOHN
Alcatel, Siemens spawn new PBX standard, Dec. 4, p. 17.
Alcatel, Siemens spawn new PBX standard, Dec. 25, p. 16F.
The Asia Pacific region grasps the ISDN nettle, July 24, p. 34.
AT&T loosens ties to Olivetti, July 24, p. 16.
AT&T moves into U.K. VANS market, Oct. 2, p. 9.
AT&T moves into U.K. VANS market, Oct. 23, p. 36B.
BellSouth joins GEC, Plessey in PCN bid, July 24, p. 14.
Big business drives U.K. local fiber, Aug. 28, p. 28.
British Telecom buys Tymnet, Aug. 28, p. E.
British Telecom buys Tymnet; expands U.S. datacom position, Aug. 7, p. 8.
BT not excluded from mobile PCN, July 17, p. 15.
C&W to add a PTT to PCN group, Sept. 11, p. 8.
Centrex: still waiting in the wings, Oct. 23, p. 35.
CEPT OKs European mobile satellite efforts, July 24, p. E.
DECT group backs cordless standard, Sept. 11, p. 10.
DECT group goes on the attack as standards debate heats up, Sept. 25, p. D.
EC heads for 1990 showdown, Nov. 13, p. 14.
ETSI to review mobile options, July 24, p. E.
Europe debates cellular patents, Sept. 11, p. 18.
Europe to decide PCN technology, Nov. 27, p. 9.
Europeans reach data compromise, Dec. 18, p. 16.
Europeans reach data compromise, Dec. 25, p.16F.
Eutelsat halves system bit rate, Oct. 23, p. 36D.
Ferranti CT2 eyes local loop, Nov. 6, p. 31.
Ferranti CT2 eyes local loop, Nov. 27, p. 16D.
France heads for EC service victory, Nov. 27, p. 10.
France tests flexible access, Aug. 21, p. 14.
France tests flexible access, Aug. 28, p. F.
Germany awards cellular license, Dec. 25, p. 16D.
Gibraltar, Nynex details emerge, Oct. 9, p. 15.
Gibraltar, Nynex details emerge, Oct. 23, p. 36D.
GPT prepares for intelligent net, Aug. 28, p. F.

GSM patent concern grows, Oct. 23, p. 26.
IIC Conference mulls disparate visions, Sept. 25, p. H.
Irmer urges major CCITT reform, Dec. 25, p. 8.
Is the European mobile revolution careening out of control?, Nov. 27, p. 28.
Italy ponders new telecom plan, Dec. 25, p. 16B.
Licenses for three PCNs awarded in the United Kingdom, Dec. 25, p. 16B.
Man in the ITU hot seat, Sept. 25, p. 48.
Not just the fax, Sept. 25, p. 33.
NTT exec rejects breakup plan, Dec. 25, p. 16F.
Pakistan awards cellular licenses, Nov. 27, p. 16D.
Pakistan awards cellular licenses, Oct. 30, p. 24.
Patent upset looms for European cellular systems, Sept. 25, p. H.
PCN companies seek ETSI embrace, Dec. 4, p. 24.
PCN in U.K. draws U.S. bids, July 31, p. 17.
PCN won't exclude BT or Racal, July 24, p. F.
Personal communication network bidding heats up in U.K., Aug. 28, p. D.
Plessey takeover ends on quiet note, Sept. 25, p. D.
Plessey takeover may end in draw, July 10, p. 11.
Plessey unveils defense tactics, Sept. 4, p. 16.
The rural telecom dilemma, July 24, p. 26.
Sony makes big European push, Aug. 21, p. 16.
Sony makes big European push, Aug. 28, p. F.
Spain joins PCN group, Sept. 25, p. H.
Special applications spur European fiber market, TELEPHONY'S Transmission Special, Nov. 1989, p. 44.
Stet withdraws from PCN battle, Sept. 18, p. 15.
Telecom glasnost for Hungary, Oct. 23, p. 10.
U S West eyes CT2 validation, Oct. 16, p. 19.
U S West gets Hong Kong cable, Aug. 28, p. F.
U S West group gets Hong Kong cable TV franchise, Aug. 7, p. 8.
U.S. ambivalent toward 1992 European market, Dec. 4, p. 25.
U.S. firms share U.K. PCN licenses, Dec. 18, p. 8.
West Germany hits FAS trail, Nov. 13, p. 10.

WILSON, CAROL

Alcatel/Cortelco reverses field on ISDN PBX, Dec. 11, p. 18.
Ameritech plans 1991 AIN launch, Oct. 9, p. 9.
Analysts praise NTI's FiberWorld, Oct. 23, p. 16.
AT&T makes its Sonet promise with new transmission gear, Oct. 30, p. 10 .
Bell Atlantic puts NT's ACD system to work, Nov. 6, p. 9.
British Telecom buys Tymnet; expands U.S. datacom position, Aug. 7, p. 8.
Can RHCs unify under INA vision?, July 3, p. 13.
Can telcos ACD?, Dec. 4, p. 38.
Celebrating pluralism all year round, Dec. 25, p. 27.
Centrex II: The telcos' revenge, July 17, p. 26.
Fujitsu lands first major Sonet contract with RHC, Dec. 4, p. 9.
Intelligent network advances new schedule, TELEPHONY'S Transmission Special, Nov. 1989, p. 34
Interconnect woes hit NATA show, Dec. 11, p. 10.
Network tools share AT&T spotlight, Nov. 6, p. 12.
New telecom architecture wins patents, July 24, p. 9.
No. Telecom gets foot into BT door, July 10, p. 12.
No. Telecom gets foot into BT door, July 24, p. G.
Northern Telecom jumps on Sonet bandwagon, Oct. 16, p. 8.
PacBell network survives quake, Oct. 23, p. 14.
Siemens wins switch order from Bell Atlantic, Nov. 27, p. 10.
SS7: on the fast track, Nov. 20, p. 49.
Survival of the network, Oct. 23, p. 38.
Telcos told to stop whining, Oct. 23, p. 9.
U S West unit buys SCP from DSC-DEC, Dec. 18, p. 10.
Whitacre steps in at SW Bell, Nov. 27, p. 9.
William Esrey: Man with a vision, Oct. 16, p. 38.

WOLFF, RICHARD S.

How fast is technology coming, Sept. 18, p. 48.

WOODWARD, KAREN

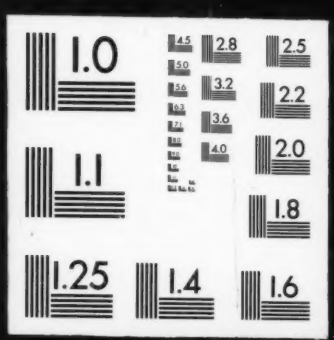
Digital cross-connect update, TELEPHONY'S Transmission Special, Nov. 1989, p. 56.

WRIGHT, MAYNARD A.

Don't leave your control logic in the dark, Sept. 11, p. 57.

YAKE, TERRY

SS7 to the rescue, Dec. 18, p. 24.


1.0
1.1
1.25
1.4
1.6
2.8
3.2
3.6
4.0
2.5
2.2
2.0
1.8